

SEQUENCE LISTINGS

SEQUENCE ID NO 1

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SEQUENCE ID NO 2

MPRSFLVKKHFNASKKPNYSELDHTVIISPPLYESYSMPVIPQPEILSSGAYSPITVWTTAAPFHAQ
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SEQUENCE ID NO 3

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SEQUENCE ID NO 4

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SEQUENCE ID NO 5

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SEQUENCE ID NO 6

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SEQUENCE ID NO 7

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SEQUENCE ID NO 8

MLPGAWLLWTSLLLLARPAQPCPMGCDQFVQEVFCSDEELATVPLDIPPYTKNII FVETSFTTLETRA
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SEQUENCE ID NO 9

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AATCAGTTTGTCTTTCTTTAGATTTGTCAAAAAGTTGTAATTTGAATATAAATAATTACTTTAAATTTG
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SEQUENCE ID NO 10

RAARIPCGGGGGLGRVGAALPLRPRPPLPASPARPLLPAARQSQAPALGRPRARRPGTSVAAHADRCF
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AFFALVANGVRAAPLWESKKQSFVGMTITDFINILHRYKSPMVQIYELEEHKIETWRELYLQETFK
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LGIGTYHNIAFIHPDTPIIKALNIFVERRISALPVVDESGKVVDIYSKFDVINLAAEKTYNNLDITVT
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SEQUENCE ID NO 11

GAAGCCTTCAGGCAGCCTCAACTCAGCCCCAAGCCACTGCTCTCCCATCCCAGTCCCTGGAAATCCAC
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SEQUENCE ID NO 12

SLQAASTQPQATALPSQSLEIHPLGPAHPNSNPLGPSLQGPDCGRQPLLSEQRFLRGALPSRALLMGK
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EEVVVYGI PYLQNLNI IDTYSARTIQNYLVWRLVLD RIGSLSQRFKDTRVNYRKALFGTMVEEVWR
ECVGYNVSNMENAVGSLYVREAFPGDSKSMVRELIDKVRTVFVETLDELGWMDEESKKKAQEKAMSIR
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VW

SEQUENCE ID NO 13

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CTGAAACGTGGGGCACTGGTTGTGGAAGATAATGACAGTGGAGTCCCAGTTGAAGAGACAAAAAACA
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SEQUENCE ID NO 14

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SEQUENCE ID NO 15

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SEQUENCE ID NO 16

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SEQUENCE ID NO 17

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TGCTGCCCCCTGGTTGAATGTTCTCTTGATAGTGCTGGACCCTTTGTCTATTTTAAAGCGAATTTTGTG
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GCTGGTGTCACTT

SEQUENCE ID NO 18

MEPGRGGTETVKGFEFSRKDLIGHGAFAVVFKGRHREKHDLEVAVKCINKKNLAKSQTLGKEIKILK
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RDLKPQNILLNPAGRRANPN SIRVKIADFGFARYLQSNMMAATLCGSPMYMAPEVIMSQHYDGKADL
WSIGTIVYQCLTGKAPFQASSPQDLRLFYEKNKTLVPTIPRETSAPLRQLLLALLQRNHKDRMDFDEF
FHHPFLDASPSVRKSPPVPVPSYPSSSGSGSSSSSSSTSHLASPPSLGEMQQLQKTLASPADTAGFLHS
SRDSGSKDSSCDTDDFVMVPAQFPGLVAEAPSAKPPPSLMCSGSSLVASAGLESHGRTPSPSPPC
SSSPSPSGRAGPFSSSRCGASVPIPVPTQVQNYQRIERNLQSPTQFQTPRSSAIRRSGSTSPLGFARA
SPSPPAHAEHGGVLARKMSLGGGRPYTPSPQVGTIPERPGWSGTPSPQGAEMRGGRSPRPGSSAPEHS
PRTSGLGCR LHSAPNLSDLHVVRPKLPKPPTDPLGAVFSPPQASPPQPSHGLQSCRNLRGSPKLPDFL
QRNPLPPIILGSPTKAVPSFDFPKTPSSQNLLALLARQGVVMTPPRNRTL PDLSEVGPFHGQPLGPGLR
PGEDPKGPFGRSFSTSR L TDL LKAAFGTQAPDPGSTESLQEKPM EIAPSAGFGGSLHPGARAGGTSS
PSPVVFTVGSPPSGSTPPQGPRTRMFSAGPTGSASSSARHLVPGPCSEAPAPELPAPGHGCSFADPIA
ANLEGAVTFEAPDLPEETLMEQEHT EILRGLRFTLLFVQH VLEIAALKGSASEAAGGPEYQLQESVVA
DQISLLSREWGFAEQLVLYLKVAELLSSGLQSAIDQIRAGKLCLSSTVKQVVRRLNELYKASVVSCQG
LSLRLQRFFLDKQRLLDRIHSITAERLIFSHAVQMVQSAALDEMFOHREGCVPRYHKALLLLEGLQHM
LSDQADIENVTKCKLCIERLSALLTGICA

SEQUENCE ID NO 19

CACAGCGGCGGCCGGGTGGCGGGGGTGAGTGGGGCCAGCGGGGCTGGACAGCAGCGGGCCCCGGGCGC
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CCCCAGGCCGGCGAGATAGAAGCGGGCGGTGCGGGCGGCGGGCGGCGGCTACAGGTGGAAATGAGTTC
TCAACAGTTTCTCGGTTAGGAGCCCCCTTCTACCGGGCTGAGCCAGGCCCTTCTCAGATTGCAAACA
GTGGTTCTGCTGGATTGATAAACCCAGCTGCTACAGTCAATGATGAATCTGGTCGAGATTCTGAAGTC
AGTGCCAGGGAGCACATGAGTTCCAGCAGCTCCCTCCAGTCCCGGGAGGAGAAGCAAGAGCCTGTTGT
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CAGTGACAGCCCCGCCAGCACACCTGACGCCAGCAGTGCCACTTTTCATTTTCGGAGGGACTTATGAAG
CCGCCCCCGAAGCCCACCATGCCTAGCCGTCCCATGCTCCTGCTCCACCTTCTACCCTGTCACTTCC
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CCCAAGTGAAATTGTTATATCGTCTGTCTTGCGTGTGTGAGAACTGGGTTTTTGTGGAGGTTTCAGAGC
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TTTGTA

SEQUENCE ID NO 20

MGPFRHPQAGEIEAGGAGGGRRLLQVEMSSQGFPRLGAPSTGLSQAPSQIANSGSAGLINPAATVNDES
GRDSEVSAREHMSSSSSLQSREEKQEPVVVRPYPQVQMLSTHHAVASATPVAVTAPPAHLTPAVPLSF
SEGLMKPPPPTMPSPRIAPAPPSTLSLPPKVPQVTVTMESSIPQASAI PVATISGQQGHPSNLHHI
MTTNVQMSIIRSNA PGPPPLHIGASHLPRGAAAAVMSSSKVTTVLRPTSQLPNAATAQPAVQHI IHQP
IQSRPPVTTSNAI PPAVVATVSATRAQSPVITTTAAHATDSALS RPTLSIQHPPSAAISIQRPAQSRD
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NRPSVPVQFQYFLPTYPPSAYPLAAHTYTPITSSVSTIROYPVSAQAPNSAITAQTGVGVASTVHLNP
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AVRKT LI PPQPPDVASPRVSSMRSTSGSPRPAGAKPKSEIHVSMATPVTVSMETVSNQNNNDQPTIAV
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MMETNSTDDEKSTAKSLLVKA EKRSPPKEY IDEEGVRYVPVRPRPPITLLRHRYRNPWKAAYHHFQRY
SDVRVKEEK KAMLQEI ANQKGVSCRAQGWKVHLCAAQLLQLTNLEHDVYERLTNLQEGI I PKKKAATD
DDLHRINELIQGNMQRCKLVMDQI SEARDSMLKVL DHKDRVLKLLNKNGTVKKVSKLKRKEKV

SEQUENCE ID NO 21

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CCAACCTGCTTTTGAAAAACAAGGATCTGCAAAGTTAGAAAAAGCTGAAATATTGCAAATGACAGTGGA
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ACTA

SEQUENCE ID NO 22

VVXVXLILAXRGVHPXAXEQSTSSVIRLNSPTTTSQIMARKKRRGII EKRRRDRINNSLSELRLVPT
AFEKQGS AKLEKAEILQMTVDHLKMLQATGGKGYFDAHALAMDFMSIGFRECLTEVARYLSSVEGLDS
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SEQUENCE ID NO 23

AGCTAATCGTTGCCAGCGGGGTGTGGACTTCGCCGCTGACCCACCTCCGCCGCTTTGGGTAATTTAG
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GAAGCTGAGACCGACAGCGCTGCTCACCGCCAACACGGCTCTGTTCTCTTAACAACAAGGCGCGTGAC
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AACCGCCCTATTGTACCCACCCCCCTTTT

SEQUENCE ID NO 24

PNIKIFSGSSHQDLSQKIADRLGLELKGKVVTKKFSNQETCVEIGESVRGEDVYIVQSGCGEINDNLME
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FDIPVDNLYAEPVAVLKWIRENISEWRNCTIVSPDAGGAKRVTSIADRLNVDFALIHKKERKKANEVDRM
VLVGDKDRVAILVDDMADTCGTICHAADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTN
TIPQEDKMKHCSKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL

SEQUENCE ID NO 25

ATGCGCCGACCCGGCGCCATTTTGGTGGCCGGGCGCGGAGGTGATTCCACACTGAGGCGAGCGCGGCG
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GACATGGCCAACATCGCGGTGCAGCGAATCAAGCGGGAGTTCAAGGAGGTGCTGAAGAGCGAGGAGAC
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SEQUENCE ID NO 26

MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELARGEIAGPPDTPYEGGRYQLEIKIPETYPF
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NPEMFKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWD VETATELLLSN

SEQUENCE ID NO 27

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TCATACCAAACCTCTCCTTCCAAGTCAGCTGGTTCCGGTATAGAGAAGTTCAGCTCCCTGACAGAGGAT
GGTTTGTTTATCAGCAGAGAAATGAAGTTCACAATAACTGTGGCATCGAGATATACTACCAAACAGAC
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SEQUENCE ID NO 28

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SEQUENCE ID NO 29

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GAGGGCGA

SEQUENCE ID NO 30

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RSFVALNYLTILFYCDSSHSLWQEVFPSPPNQOGT PPPGSVPCPALGAESLNVASGAPVLTVASGGGE
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SEQUENCE ID NO 31

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SEQUENCE ID NO 32

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SEQUENCE ID NO 33

[illegible]

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SEQUENCE ID NO 34

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SEQUENCE ID NO 35

CGGTCTCTTTGCAAATGTCAATGTATTTTTTTCCTTCAATATACTGTATCTATTCTCTATTATTAAG
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SEQUENCE ID NO 36

MDPSMGVNSVTISVEGMTCNCSVWTIEQQIGKVNGVHHIKVSLEEKNATIIYDPKLQTPKTLQEAIIDD
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FALIYNLVGIPIAAGVFMPIGLVLPWMGSAAMAASSVSVVLSSLFLKLYRKPTYESYELPARSQIGQ
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DTAL

SEQUENCE ID NO 37

CAGGAGAACTACATAGCCCAGCATGCAACAGTCTCAACTTTTTTACGGGACACTACATTTCCAGAAAGG
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SEQUENCE ID NO 38

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WVTISKKNQDNKKYEI I KR DILRGKSVPHYAAIEPDGNGLMIVSYKSFTFVQAGQDLEENMDEDI SEK
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SNSLEISLIKKNEGLTWPELVIGDKQGELIRDSAQCAAI AERLMHLTSEELNPNPDKEKPPCNAQELE
ECDIFFEESSSLCRFDGNTLKTTHVNLGSGNQYLF SVIVDPKEMPCFCLRHDVDALLWQPHSSKQDDM
WEHIATFNALGYVQASKRDKKFACAPNYSYAALCECLRRVFIYRQPAPMSTVLYNRKEGRQVGQVAK
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SEQUENCE ID NO 39

CGGRATKCGCGCCGGSGTCKASCGGCGCTGCTGGAAGATGGCGAGCGGCGGGACGAGCGGCCGCAT
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